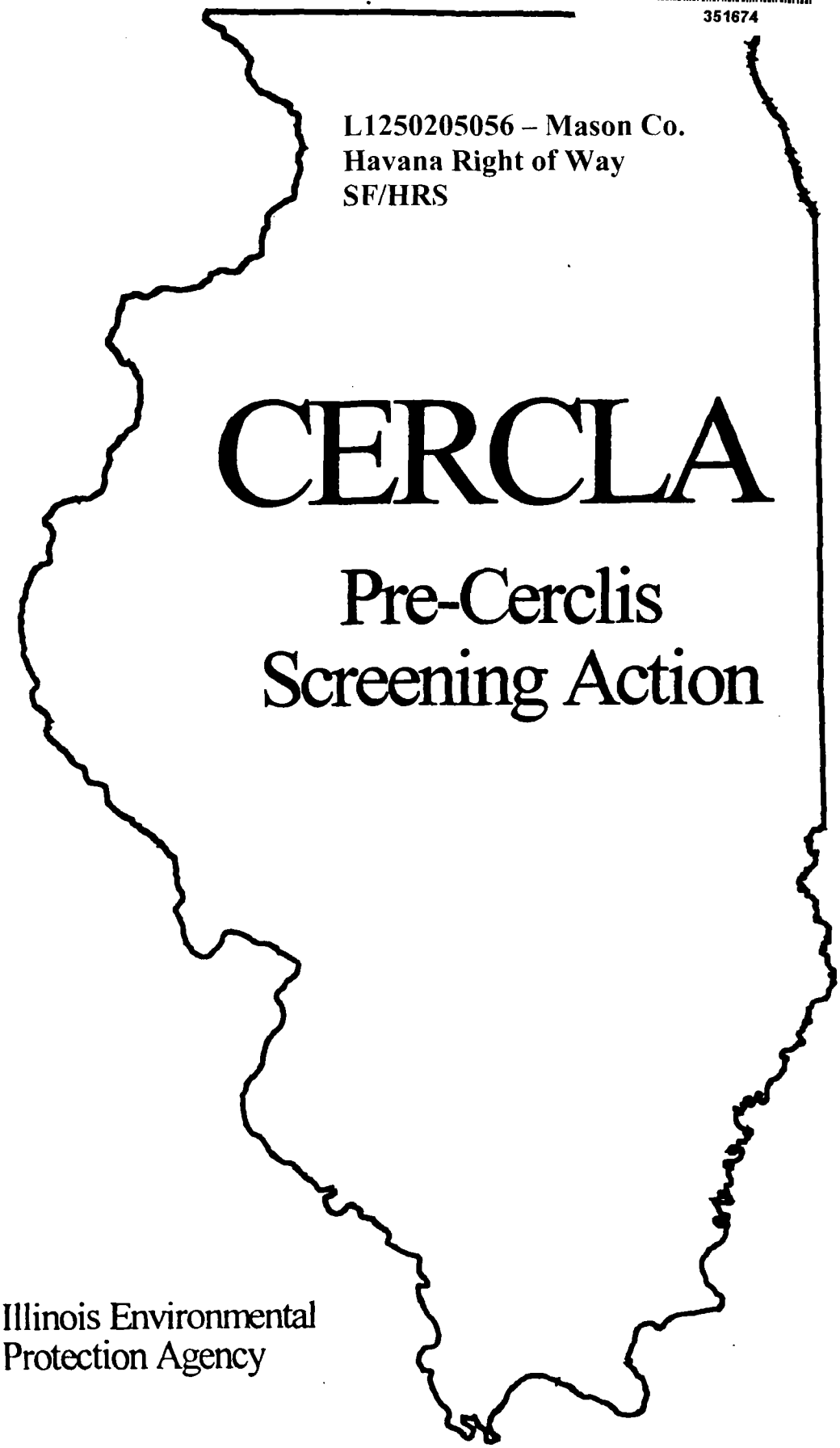
L1250205056 – Mason Co.
Havana Right of Way
SF/HRS

CERCLA

Pre-Cerclis Screening Action



Illinois Environmental Protection Agency

TABLE OF CONTENTS

APPENDICES

SECTION 1
INTRODUCTION

On October 18, 2004, staff from the Illinois Environmental Protection Agency (IEPA) Office of Site Evaluation (OSE) received funding from the United States Environmental Protection Agency (U.S. EPA) Region V to conduct a Pre-CERCLIS (PCS) Screening Assessment of the Havana Right of Way located in Havana, Illinois. The PCS is performed under the authority of the Comprehensive Environmental Response, Compensation, & Liability Act (CERCLA) commonly known as Superfund.

The 2004 PCS investigation of the Havana Right of Way site was the result of a request for additional investigation by the IEPA State Sites Unit (SSU). Heavy metal contamination of soil outside the physical boundaries of the Prairieland Steel site was discovered during a 2003 IEPA SSU investigation. The Prairieland Steel property was integrated into the 2004 PCS investigation of a larger site referred to as the Havana Right of Way.

The PCS is a review of information on potential Superfund sites to determine whether the site should be entered into U.S. EPA Comprehensive Environmental Response, Compensation, & Liability Information System (CERCLIS). If there is sufficient information that suggests the site may be impacting human health and/or the environment, the site will be placed in CERCLIS and will progress through the Superfund process.

SECTION 2
SITE BACKGROUND

2.1 Site Description

The Havana Right of Way site is located southeast of the intersection of Illinois Route 97 and Illinois Route 78 in Havana, Illinois. The site is situated south of downtown Havana, adjacent to the business district. The plat description given for the site is the southwest ¼ of Section 1, Township 12N, Range 9W of Mason County. The area investigated during the 2004 Pre-CERCLIS Screening encompasses approximately three acres. The area around the site is a mixture of residential, commercial, and industrial properties. Densely populated residential areas are located south and east of the site. Located north of the site are various commercial and industrial properties. These properties include restaurants, gas stations, and some light industry. Some residential properties are located west of the site, but the terrain is primarily dominated by a levee that parallels the Illinois River.

Site topography is almost completely level with some slight undulation. The exception is the former rail beds/right of ways that form the perimeter of the site. They are elevated relative to the inner part of the site. There are no drainage pathways adjacent to or leading from the site. A maintained fence with locked gates restricts access to most areas of the site. To reach the site travel northwest on Route 97 to Havana, Illinois. Take a left on Route 78 traveling south approximately one mile after entering the City of Havana. The Havana Right of Way site is located east of Route 78 approximately 750 feet southeast of the intersection of Route 97 and Route 78.

2.2 Site History

The IEPA Bureau of Land file for Prairieland Steel contains a good deal of historical information regarding site activities for the entire Havana Right of Way site. The site is currently composed of at least five separate parcels. Four of the parcels are under private ownership. The former rail right of ways, which roughly form the border of the site, are owned by the City of Havana. A review of Sandborn maps revealed that industrial processes have taken place on at least one parcel of the site since approximately 1887. While operations at the former Prairieland Steel property were discontinued in 1996, there are still two active facilities within the Havana Right of Way site. The names of the two active facilities are Profile Screen, Incorporated and Crescent Forge. The site was initially brought to the attention of the IEPA by the City of Havana. File information indicates that in 2001 contractors for the IEPA SSU conducted a site investigation of Prairieland Steel. Findings from this investigation led to the excavation of two waste pits and the determination that shallow groundwater had been affected by site activities.

In 1996 the U.S. EPA conducted a Removal Action at the Prairieland Steel facility during which 7,000 gallons of waste corrosives, 45 drums of lead slag, 7 drums of waste solids, 18 drums of waste liquids, and a 25 cubic yards of non-hazardous debris were disposed. During the year of 2000, the bulk of the Prairieland Steel facility was demolished by the City of Havana using Brownfield Grant money. Groundwater and soil samples collected during the 2001 IEPA SSU investigation revealed on-site volatile organic (VOC) and heavy metal contamination. The results of the 2001 investigation also revealed heavy metal contamination of soil outside the Prairieland Steel property. A determination was made that a larger area around Prairieland Steel

needed to be screened to determine the extent of the contamination. The findings of the subsequent 2004 PCS investigation are discussed in Section 3 of this report.

SECTION 3
FIELD INVESTIGATION ACTIVITIES

3.1 Field Inspection

Prior to the June 2004 Pre-CERCLIS Screening Assessment, representatives from the IEPA OSE and SSU conducted a site reconnaissance of the Havana Right of Way. The site recon was conducted to determine the extent of the site and to identify potential sample locations. A survey of the surrounding area was conducted during the site recon as well. The survey of the surrounding area was done to determine land usage of the neighboring properties as well as any pathway or receptors that potentially may be affected by the site.

It was determined that an x-ray fluorescence (XRF) investigation of the property was needed in order to determine the extent of heavy metal contamination of on-site soil. It was also determined that confirmatory soil samples would be collected and sent to an IEPA laboratory for inorganic and toxicity characteristics leaching procedure (TCLP) analysis. Soil borings would be obtained with the Geoprobe® in order to determine the vertical extent of fill material and soil contamination. The soil borings would be screened with the XRF approximately every 6 to 12 inches. This information was necessary to determine if a more detailed investigation of the site was needed in areas other than the former Prairieland Steel property.

3.2 X-Ray Fluorescence (XRF) Results

Representatives of the IEPA OSE conducted the detailed x-ray fluorescence investigation at the Havana Right of Way site the week of June 7, 2004. As stated earlier, IEPA file information indicated that foundry operations at the site had likely resulted in heavy metal contamination of

on-site soil. The extent of the XRF survey area was determined using a combination of file and historical information gathered during the 2004 PCS investigation. The XRF survey revealed lead and arsenic contamination primarily in the upper two feet of site soil. Some soil boring locations revealed arsenic and/or lead contamination at depths greater than two. Laboratory analysis helped to confirm the XRF results.

3.3 Soil Sample Results

A map of all the soil boring locations can be found in Appendix A of this report. Results of the XRF and confirmatory soil samples can be found in Appendix B. Based upon this data it appears that most of the contamination occurs in the upper two feet of on-site soil. At nearly every soil boring location arsenic concentrations were above the IEPA Tiered Approach to Corrective Action Objective (TACO) Tier 1 evaluation numbers for industrial-commercial properties. Lead was also found above TACO Tier 1 evaluation numbers as well, but not at anywhere near the frequency of the arsenic contamination.

SECTION 4
MIGRATION PATHWAYS

4.1 Soil Exposure Pathway

The soil exposure pathway appears to be the primary pathway of concern associated with the Havana Right of Way site. This determination is based upon information gathered during the 2004 Pre-CERCLIS Screening Assessment and prior IEPA investigations at Prairieland Steel. X-ray fluorescence and IEPA laboratory results indicate that in some areas of the site there is heavy metal contamination that meets CERCLA criteria for an observed release.

There is no indication that the property is used for recreational purposes. A maintained fence with locked gates is in place to deter trespassing. There are a small number of employees within the Havana Right of Way. There approximately 10 employees on-site, all of which work at either Profile Screen or Crescent Forge. There is a densely populated residential area located immediately to the south and east of the site. The population within one mile of the site is approximately 3,000 individuals. It should be noted that the site does not have good vegetative cover in some areas. However, at least half of the site is either paved over or confined within buildings. A maintained fence with locked gates restricts access to the Prairieland Steel site, but access to the rest of the Havana Right of Way is unrestricted.

4.2 Groundwater Pathway

A determination was made during the 2001 IEPA SSU investigation of the Prairieland Steel site

that area shallow groundwater has been affected by past site operations. Foundry activities at the former Prairieland Steel resulted in volatile organic compound (VOC) and heavy metal contamination of area groundwater. Prairieland Steel was an active foundry located within the Havana Right of Way study area. Foundry activities at the Prairieland Steel property were known to have occurred almost continuously between 1887 and 1996.

All the residents of Havana obtain potable water from three public wells that are clustered approximately a ½ mile north of the site. According to Illinois State Geological Survey (ISGS) Circular 542 indicates that a shallow aquifer underlying areas of Mason County is an ideal source of potable water. Given the proximity of the Illinois River, groundwater is plentiful and the three public wells average only 85 feet in depth. There is no information in the IEPA Source Water Assessment Program Fact Sheet for the City of Havana that any of the public wells have been affected by on-site groundwater contamination. However, it was also reported in the Fact Sheet that only one of the public wells has been sampled for VOC contamination in the past 20 years. There is no available well sampling data prior to 1982.

4.3 Surface Water Pathway

According to a United States Geologic Survey (USGS) topographic map the Illinois River, a perennial waterway, is located approximately 1,500 feet west of the site. Based upon the same USGS map and visual observation there is no direct surface water route from the site to the Illinois River. Based upon this information it does not appear that a release to the surface water

pathway has occurred recently at the Havana Right of Way site. Given the lack of information regarding any historical discharges it is possible that a release to the Illinois River may have occurred in the past. The more detailed investigation of historical information is necessary to fully assess the surface water pathway. The Federal Emergency Management Agency map for Havana indicates that the site is located inside of a 100-year floodplain.

4.4 Air Route

Ambient air monitoring was not conducted during the 2004 PCS at the Havana Right of Way site. This was due to the fact that heavy metal contamination, which was the focus of the 2004 PCS, cannot be detected with a toxic vapor analyzer. Available file information gave no indication that open burning occurred on-site. Nor are there any available reports of odors emanating from the site. As indicated earlier the site does not have good vegetative cover in all areas that were not paved over. It is possible that airborne particulates have been transported off-site via the air pathway.

SECTION 5
REFERENCES

Berg, Richard C., and Kempton, John P., Stack Unit Mapping of Geologic Materials in Illinois to a Depth of 15 Meters, Illinois State Geological Survey, 1988.

Bureau of the Census, County and City Data Book, 1990 U.S. Census Data.

Illinois Environmental Protection Agency, Bureau of Land, file for Prairieland Steel, Mason County, Illinois, L0290000000.

Rockford Map Publishers, 1996, Land Atlas and Plat Book, Mason County, Illinois.

State of Illinois, United States Geologic Survey, 1984, Havana East, Illinois, 7.5 Minute Topographic Map.

SECTION 6
PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

Checklist Preparer: Mark Weber/EPS III
Name/Title
1021 North Grand Ave. East, Springfield, IL 62794
Address
epa4409@epa.state.il.us
E-mail Address

September 15, 2004
Date
217/524-1656
Phone

Site Name: Havana Right of Way
Previous Names (if any):
Site Location: East Water Street
Havana, IL 62644

Latitude: N 40°17.476' **Longitude:** W 90°03.845'

Complete the following checklist. If yes is marked, please explain below.	YES	NO
1. Does the site already appear in CERCLIS?	~	X
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?	~	X
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	~	X
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	~	X
5. Is some other program actively involved with the site (Federal, VCP, State, or Tribal)?	X	~
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	~	X
7. Are the hazardous substances potentially released at the site excluded by policy considerations (i.e, deferred to RCRA Corrective Action, FIFRA, or Brownfields)?	~	X
8. Is there insufficient data (provided by the State) to verify that a release has occurred or has the potential to occur (i.e., based on potentially unreliable sources or with no information to support the presence of hazardous substances or CERCLA eligible pollutants and contaminants)?	~	X
9. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (i.e., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, previous HRS score determined, EPA approved risk assessment completed)?	~	X

Please explain all yes answer(s), attach additional sheets if necessary: (5) One of the properties within the Havana Right of Way, the former Prairieland Steel facility, is the subject of an environmental investigation by the IEPA State Sites Unit to determine if may be eligible for remediation through that program.

Site Determination: ~ Yes Enter the site into CERCLIS. Further assessment is recommended (explain below).

~ No The site is not recommended for placement into CERCLIS (explain below).

DECISION/DISCUSSION/RATIONALE:

Refer to Site Summary & Recommendation which is attached in the Pre-Score section of this report.

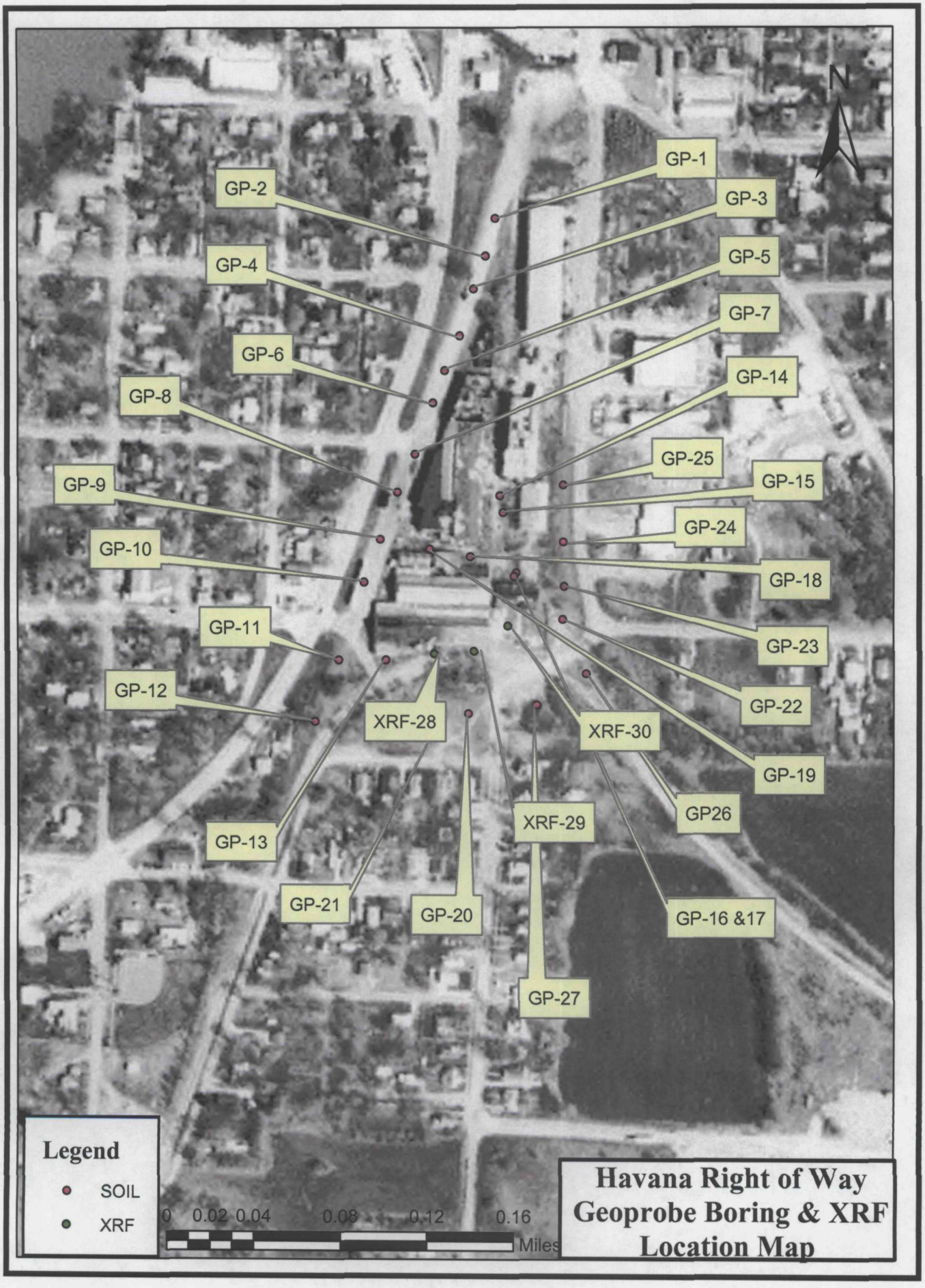
Regional EPA Reviewer: _____ _____

Print Name/Signature Date

State Agency/Tribe: _____ _____

Print Name/Signature Date

APPENDIX A
SOIL BORING LOCATION MAP


N
GP-1
GP-2
GP-3
GP-4
GP-5
GP-6
GP-7
GP-8
GP-14
GP-25
GP-9
GP-15
GP-24
GP-10
GP-18
GP-11
GP-23
GP-12
GP-22
XRF-28
XRF-30
GP-19
GP26
XRF-29
GP-13
GP-21
GP-20
GP-16 &17
GP-27
Legend
SOIL
XRF
0 0.02 0.04 0.08 0.12 0.16
Miles
Havana Right of Way
Geoprobe Boring & XRF
Location Map

APPENDIX B
XRF, INORGANIC, & TCLP SAMPLE SUMMARIES

HAVANA RIGHT OF WAY XRF DATA

LOCATION	DEPTH	Lead	Arsenic	Mercury	Zinc	Copper	Nickel	Cobalt	Chromium
GP #1									
3	Surface	48.74							
4	2'	44.28	38.01					209.86	
5	3'	28.6	23.81						
6	4'								
7	4'	26.73							
8	5'		25.69						
9	6'	26.09							
GP #2									
10	2"	79.28	52.72					415.62	
11	10"	281.93	1506.25	55.9	144.72	106.34			
12	2'	192.75	46.06			88.76		352.98	
16	3'	27.71							
17	4'	39.39							
GP #3									
18	2"	223.16	797.9		141.5	112.77			
19	1'	186.34	403.82		111.73				
20	2'	30.83						272.42	
21	3'								
22	4'								
24	9" Comp	106.43	346.46		44	57.8			
GP #4									
25	5"	240.45	983.18		183.41	129.59			
26	1'	79.11	152.63						
27	2'	141.55							
28	3'	32.86							
29	3.5'		27.98						
30	4'	28.05							
31	5'								
GP #5									
32	4"	267.43	2554.16	81.76		138.43		558.84	
33	11"	515.31			147.49	177.73		873.76	
34	1.5'	24.17	21.13						304.79
35	2.5'	54.52							
36	3.5'								
37	4" - 7" Comp	91.61	812.83		55.91			423.8	
GP #6									
38	3"		45.12					312.03	
39	1'	383.57	915.16	44.19	114.32	166.99			
40	1.5'	155.31	449		95.91				
41	2'	35.29	169.33						
42	3'		83.62						
43	4'	22.78	26.57						
GP #7									
44	6"	164.79	789.61		142.3			821.84	
45	1'	206.19	2129.64	67.76	130.7			873.7	
46	2'	23.3	57.92						
47	3'								
48	3.5'	32.57							
49	4'		21.78						
50	5'	30.51							
GP #8									
51	6"	60.16	108.16						
52	1'	40.72	84.65					1119.28	479.93
53	1.5'	216.79			95.37	87.27		227.56	
54	2'	25.54							
55	3'								
56	4'								248.6

LOCATION	DEPTH	Lead	Arsenic	Mercury	Zinc	Copper	Nickel	Cobalt	Chromium
GP #9									
57	2"	114.68				167.43		1202.91	
58	7"	59.79	74.95						
59	1'	38.84	1524.36					1698.89	
60	1.5'	220.3	98.87			115.78		516.76	
61	2'	271.31	48.81		150.54	145.09			
62	3'								
63	3.5'	24.96						219.51	
GP #10									
64	6"	88.41	626.72					800.96	
65	1'	53.69	52.85					1674.84	
66	1.5'	62.77	34.5					359.31	
67	2.5'							336.25	
68	3.5'	27.05							
69	4.5'	22.23						157.17	
70	6'	28.74							
GP #11									
71	4"	114.57	304.89		72.62	93.09			
72	9"	172.86	72.2		71.26				
73	1.5'							204.02	
74	2.5'	30.54							
GP #12									
75	6"	121.26	481.14						
76	1'	21	74.43						
77	2" - 9" Comp	100.66	283.62						
78	2'		63.91						
79	3'		29.19						
80	4'	29.96							
81	5'	27.4	24.44			97.06			
82	6'								
GP #13									
83	4"	192.97	109.31		140.77	267.65		3013.24	
84	10"	183.89						3661.58	
85	1.5'	212.22			201.65	115.54		349.46	
86	2'	57.75							
87	3'	19.2	22.3					173.79	
GP #14									
88	4"	64071.51		1289.43	966.22				1010.22
89	1'	501.81							
90	2'	79.22	30.8						
91	3'	50.5							
92	4'	411.93	65.11						
93	5'	27.2							
94	4" Comp	80669.98	3112.96	1885.83	2134.47	900.39		3235.21	
GP #15									
95	1"	67433.31	3215.79	1432.43	1210.6	674.48		4989.4	2783.31
96	6"	484.95	91.62						
97	1'	595.08	97.85						
98	2'	1414.63	169.03						
99	3'	66.14							
100	4'	74.89							
101	5'	55.01							
GP #16									
102	1"	84.29							
103	6"	116.39						434.54	
104	1'	176.22			74.87				
GP #17									
105	1"	262.56			251.19				
106	6"	333.07			258.83				
107	1'	38.18							
108	2.5'	30.96							

LOCATION	DEPTH	Lead	Arsenic	Mercury	Zinc	Copper	Nickel	Cobalt	Chromium
GP #18									
109	2.5"	409.97				2349.09	3491.74	19204.82	16097.08
110	9"	677.3						2144.89	
111	1.5'	201.47	52.52		174.13				
112	3" - 9" Comp	791.75	95.16						
113	2.5'	36.32							
114	3'	46.23							259.11
115	4.5'	33.2							
GP #19									
116	1"	1376.14			156.75				528.23
117	6"	460.51			2181.29	193.38			
118	1'	115.06			234.65				
119	2.5'	40.77							
120	3.25'	206.39			320.59			851.21	
121	4.5'	28.66							
GP #20									
122	2"	49.97							
123	6"	35.09							
124	1'								
125	2'	31.09							
GP #21									
126	2"	102.03							
127	6"	152.22			83.44				
128	1'	244.14			125.91				
129	2'	29.01							
GP #22									
130	2"	38.37							
131	6"	112.14	656.5					1277.92	
132	1'	87.66	30.38		260.09				
133	1.5'	83.94			93.19				
134	2.25'	30.65							
135	3'	22.67							
136	4'	26.23						166.78	
GP #23									
137	1"	178.41	590.4		139.07			473.61	
138	6"	209.06	198.71		112.14			462.81	
139	1'	280.78			111.05				
140	1.5'	28.68							
141	3'	27.06							
142	6" Comp	92.7	252.82		68.73				
GP #24									
143	2"	225.06	141.43		97.53			382	
144	6"	86.1	79.72		91.55				
145	1'	31.59							
146	2'	37.81							
147	3'								
GP #25									
148	2"	271.14	147.87		115.14			459.48	
149	6"	315.77	74.02						
150	1'	34.54			73.42				
151	2'		31.18						
152	3'								
GP #26									
153	1"	139.72	1123.56	40.5	134.46			492.75	
154	4"	83.14	1204.22		121.17	115.36			
155	6"	132.86	1141.5		156.65			1118.26	
156	1'	279.87	188.38		1279.33				
157	2'	28.07	25.5						
158	3'		27.15						

LOCATION	DEPTH	Lead	Arsenic	Mercury	Zinc	Copper	Nickel	Cobalt	Chromium
GP #27									
159	3"	43.03	24.45						
160	6"	210.64							
161	1'	253.01					1274.48		
162	2'	59.57						557.87	
163	3'	24.86						205.13	
164	4'								
SS #28									
165	Surface	99.77	94.3					1143.9	
166	6" Comp	101.58	92.98						
SS #29									
167	Surface	141.89	125.39						
168	6" Comp	115.16	47.43					745.54	
SS #30									
169	Surface	113.61							
170	4"	343.07			256.43			2422.64	

Concentrations highlighted in red indicate those which exceeded TACO Tier 1 clean-up objectives.

TABLE 1
INORGANIC SAMPLE SUMMARY

Sample Point	X101	X102	X103	X104	X105	X106	X107	X108	X109	X110	X111
Geoprobe Location	GP - 4	GP - 7	GP - 12	GP - 14	GP - 15	GP - 15	GP - 18	GP - 22	GP - 23	GP - 24	GP - 26
Depth	5" - 1'	5" - 1'	2" - 9"	4"	1"	1" (duplicate)	4" - 9"	6" - 10"	0" - 6"	2.5' - 3'	0" - 6"
INORGANICS (ppm)											
Aluminum	**3900.0**	**4900.0**	**2800.0**	**4400.0**	**4900.0**	**5700.0**	**3800.0**	**6400.0**	**4500.0**	**2000.0**	**11000.0**
Antimony	7.8	11.0	7.4	23.0	140.0	100.0	3.9	4.1	78.0	--	11.0
Arsenic	**720.0**	**1400.0**	**440.0**	**28.0**	**82.0**	--	**14.0**	**400.0**	**540.0**	**2.4**	**1100.0**
Barium	70.0	77.0	48.0	160.0	1300.0	1300.0	450.0	56.0	92.0	11.0	170.0
Beryllium	**0.7**	**0.8**	**0.6**	--	--	--	**0.5**	**1.3**	**1.0**	**0.1**	**2.6**
Boron	26.0	26.0	12.0	8.7	130.0	90.0	1300.0	35.0	42.0	1.3	120.0
Cadmium	**0.9**	**1.5**	**0.9**	**2.8**	--	--	**6.7**	**1.4**	**1.2**	--	**2.7**
Calcium	18000.0	38000.0	7200.0	6300.0	17000.0	15000.0	1100.0	7100.0	11000.0	4200.0	31000.0
Chromium	**11.0**	**12.0**	**7.4**	**66.0**	**280.0**	**270.0**	**84.0**	**11.0**	**12.0**	**3.0**	**18.0**
Cobalt	6.1	6.2	4.7	10.0	--	--	14.0	7.4	6.5	3.0	7.3
Copper	40.0	64.0	48.0	130.0	260.0	260.0	170.0	37.0	83.0	4.4	78.0
Iron	32000.0	34000.0	18000.0	79000.0	92000.0	95000.0	110000.0	36000.0	36000.0	4000.0	48000.0
Lead	150.0	180.0	140.0	21000.0	45000.0	42000.0	290.0	77.0	1000.0	3.7	130.0
Magnesium	3100.0	5100.0	1900.0	1200.0	2500.0	2700.0	990.0	1500.0	2500.0	2000.0	1400.0
Manganese	400.0	440.0	270.0	530.0	950.0	1100.0	3500.0	360.0	400.0	110.0	650.0
Mercury	0.5	0.7	0.6	2.9	16.0	18.0	1.3	0.4	0.5	--	0.6
Nickel	12.0	15.0	11.0	79.0	390.0	360.0	84.0	22.0	18.0	5.7	21.0
Potassium	480.0	580.0	340.0	--	--	--	370.0	460.0	480.0	210.0	1100.0
Selenium	1.4	--	--	--	--	--	--	1.0	--	--	1.3
Silver	0.7	0.7	0.4	--	--	--	--	0.4	--	--	--
Sodium	**150.0**	**180.0**	--	--	--	--	**290.0**	--	**100.0**	--	**37.0**
Strontium	20.0	53.0	16.0	19.0	46.0	44.0	37.0	19.0	23.0	4.6	58.0
Thallium	--	--	--	**16.0**	**200.0**	--	--	--	--	--	--
Vanadium	15.0	16.0	12.0	19.0	--	--	16.0	19.0	14.0	6.7	25.0
Zinc	94.0	160.0	86.0	430.0	790.0	900.0	180.0	150.0	130.0	14.0	250.0
Cyanide	0.1	0.1	0.1	0.3	1.8	1.6	1.0	0.2	0.2	--	0.2

TABLE 2
TCLP SAMPLE SUMMARY

Sample Point	X104	X105	X106	X109	X111
pH	8.8	8.6	8.6	8.7	8.7
Geoprobe Location	GP - 14	GP - 15	GP -15	GP - 23	GP - 26
Depth	4"	1"	1" (duplicate)	0" - 6"	0" - 6"
INORGANICS (ppm)					
Antimony	--	0.04	0.02	--	--
Arsenic	--	--	--	0.16	0.33
Barium	1.20	1.80	1.90	0.24	0.26
Cadmium	0.02	0.03	0.03	0.00	0.00
Lead	290.00	360.00	300.00	0.12	0.04
Nickel	0.10	0.40	0.36	0.01	0.01
Zinc	0.93	3.60	4.10	0.11	0.47

APPENDIX C
LABORATORY RESULTS

Illinois Environmental Protection Agency Laboratory

2125 S. First Street Champaign, Illinois 61820 217.278.5858

LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X101**	Lab Sample ID:	**C4F2448-01**
Matrix:	Soil- RCRA	Date/Time Collected:	08-Jun-04 00:00
Sample Type:			

*** DEFAULT GENERAL METHOD ***

Method:	**SM 2540G**	Analyzed:	29-Jun-04 08:53
Units:	%	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Solids, %	**92.9**		0.1	

Cyanide, Total and Amenable(Colorimetric,Automated UV) by RCRA 9012

Method:	**9012**	Analyzed:	16-Jun-04 13:31
Units:	mg/kg dry	Sample Qualifier	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide,Soil	**0.07**			0.2

Mercury (RCRA) by EPA 7000 Series Methods

Method:	**7471**	Analyzed:	12-Aug-04 16:19
Units:	mg/kg	Sample Qualifier:	**A-01d**

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	**0.54**	J3, J4	0.10	

Reported: 13-Aug-04 11:00

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X101**	Lab Sample ID:	**C4F2448-01**
Matrix:	Soil- RCRA	Date/Time Collected:	08-Jun-04 00:00
Sample Type			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	**6010**	Analyzed:	25-Jun-04 13:54
Units:	mg/kg dry	Sample Qualifier.	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium, Solid	**18000**		54	
Magnesium, Solid	**3100**		54	
Sodium, Solid	**150**		54	
Potassium, Solid	**480**		220	
Aluminum, Solid	**3900**		11	
Antimony, Solid	**7.8**		0.65	
Arsenic, Solid	**720**		1.1	
Barium, Solid	**70**		0.54	
Boron, Solid	**26**		5.4	
Beryllium, Solid	**0.66**		0.11	
Cadmium, Solid	**0.94**		0.54	
Chromium, Solid	**11**		0.54	
Copper, Solid	**40**		0.54	
Cobalt, Solid	**6.1**		0.54	
Iron, Solid	**32000**		11	
Lead, Solid	**150**		0.54	

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Reported: 13-Aug-04 11:00

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X101**	Lab Sample ID:	**C4F2448-01**
Matrix:	Soil- RCRA	Date/Time Collected:	08-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	**6010**	Analyzed:	25-Jun-04 13:54
Units:	mg kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Manganese, Solid	**400**		0.54	
Nickel, Solid	**12**		0.54	
Selenium, Solid	**1.4**		1.1	
Silver, Solid	**0.68**	J4	0.54	
Strontium, Solid	**20**		0.54	
Thallium, Solid	ND		1.3	
Vanadium, Solid	**15**		0.54	
Zinc, Solid	**94**		1.1	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X102**	Lab Sample ID:	**C4F2449-01**
Matrix:	Soil- RCRA	Date/Time Collected:	08-Jun-04 00:00
Sample Type:			

*** DEFAULT GENERAL METHOD ***

Method:	**SM 2540G**	Analyzed:	29-Jun-04 08:53
Units:	%	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Solids, %	**88.3**		0.1	

Cyanide, Total and Amenable(Colorimetric,Automated UV) by RCRA 9012

Method:	**9012**	Analyzed:	16-Jun-04 13:31
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide,Soil	**0.09**			0.2

Mercury (RCRA) by EPA 7000 Series Methods

Method:	**7471**	Analyzed:	12-Aug-04 16:19
Units:	mg/kg	Sample Qualifier:	**A-01d**

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	**0.71**	J3, J4	0.10	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	X102	Lab Sample ID:	C4F2449-01
Matrix:	Soil- RCRA	Date/Time Collected:	08-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	6010	Analyzed:	25-Jun-04 14:07
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium, Solid	38000		57	
Magnesium, Solid	5100		57	
Sodium, Solid	180		57	
Potassium, Solid	580		230	
Aluminum, Solid	4900		11	
Antimony, Solid	11		0.68	
Arsenic, Solid	1400		1.1	
Barium, Solid	77		0.57	
Boron, Solid	26		5.7	
Beryllium, Solid	0.82		0.11	
Cadmium, Solid	1.5		0.57	
Chromium, Solid	12		0.57	
Copper, Solid	64		0.57	
Cobalt, Solid	6.2		0.57	
Iron, Solid	34000		11	
Lead, Solid	180		0.57	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	X102	Lab Sample ID:	C4F2449-01
Matrix:	Soil- RCRA	Date/Time Collected:	08-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	6010	Analyzed:	25-Jun-04 14:07
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Manganese, Solid	**440**		0.57	
Nickel, Solid	**15**		0.57	
Selenium, Solid	ND		1.1	
Silver, Solid	**0.70**	J4	0.57	
Strontium, Solid	**53**		0.57	
Thallium, Solid	ND		1.4	
Vanadium, Solid	**16**		0.57	
Zinc, Solid	**160**		1.1	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code	PR51	Visit No :	
Trip ID:			
Client Sample ID:	X103	Lab Sample ID:	C4F2450-01
Matrix:	Soil- RCRA	Date Time Collected:	08-Jun-04 00:00
Sample Type:			

*** DEFAULT GENERAL METHOD ***

Method:	SM 2540G	Analyzed:	29-Jun-04 08:53
Units:	%	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Solids, %	90.6		0.1	

Cyanide, Total and Amenable(Colorimetric,Automated UV) by RCRA 9012

Method:	9012	Analyzed:	16-Jun-04 13:31
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide,Soil	0.05			0 2

Mercury (RCRA) by EPA 7000 Series Methods

Method:	7471	Analyzed:	12-Aug-04 16:19
Units:	mg/kg	Sample Qualifier:	A-01d

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	0.58	J3, J4	0.10	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	X103	Lab Sample ID:	C4F2450-01
Matrix:	Soil- RCRA	Date/Time Collected:	08-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	6010	Analyzed:	25-Jun-04 14:14
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium, Solid	**7200**		55	
Magnesium, Solid	**1900**		55	
Sodium, Solid	ND		55	
Potassium, Solid	**340**		220	
Aluminum, Solid	**2800**		11	
Antimony, Solid	**7.4**		0.66	
Arsenic, Solid	**440**		1.1	
Barium, Solid	**48**		0.55	
Boron, Solid	**12**		5.5	
Beryllium, Solid	**0.55**		0.11	
Cadmium, Solid	**0.92**		0.55	
Chromium, Solid	**7.4**		0.55	
Copper, Solid	**48**		0.55	
Cobalt, Solid	**4.7**		0.55	
Iron, Solid	**18000**		11	
Lead, Solid	**140**		0.55	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X103**	Lab Sample ID:	**C4F2450-01**
Matrix:	Soil- RCRA	Date/Time Collected:	08-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	**6010**	Analyzed:	25-Jun-04 14:14
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Manganese, Solid	**270**		0.55	
Nickel, Solid	**11**		0.55	
Selenium, Solid	ND		1.1	
Silver, Solid	**0.38**		0.55	
Strontium, Solid	**16**		0.55	
Thallium, Solid	ND		1.3	
Vanadium, Solid	**12**		0.55	
Zinc, Solid	**86**		1.1	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X104**	Lab Sample ID:	**C4F2451-01**
Matrix:	Soil- RCRA	Date Time Collected:	09-Jun-04 00 00
Sample Type:			

*** DEFAULT GENERAL METHOD ***

Method:	**SM 2540G**	Analyzed:	29-Jun-04 08:53
Units:	%	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Solids, %	**92.9**		0.1	

Cyanide, Total and Amenable(Colorimetric,Automated UV) by RCRA 9012

Method:	**9012**	Analyzed:	16-Jun-04 13:31
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide,Soil	**0.32**			0 2

Mercury (RCRA) by EPA 7000 Series Methods

Method:	**7471**	Analyzed:	12-Aug-04 16:19
Units:	mg/kg	Sample Qualifier:	**A-01d**

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	**2.9**	J3, J4	0.10	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X104**	Lab Sample ID:	**C4F2451-01**
Matrix:	Soil- RCRA	Date/Time Collected:	09-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	**6010**	Analyzed:	25-Jun-04 19:40
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium, Solid	**6300**		540	
Magnesium, Solid	**1200**		540	
Sodium, Solid	ND		540	
Potassium, Solid	ND		2200	
Aluminum, Solid	**4400**		110	
Antimony, Solid	**23**		6.5	
Arsenic, Solid	**28**		11	
Barium, Solid	**160**		5.4	
Boron, Solid	**8.7**		54	
Beryllium, Solid	ND		1.1	
Cadmium, Solid	**2.8**		5.4	
Chromium, Solid	**66**		5.4	
Copper, Solid	**130**		5.4	
Cobalt, Solid	**10**		5.4	
Iron, Solid	**79000**		110	
Lead, Solid	**21000**		5.4	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No :	
Trip ID:			
Client Sample ID:	**X104**	Lab Sample ID:	**C4F2451-01**
Matrix:	Soil- RCRA	Date/Time Collected:	09-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	**6010**	Analyzed:	25-Jun-04 19:40
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Manganese, Solid	**530**		5.4	
Nickel, Solid	**79**		5.4	
Selenium, Solid	ND		11	
Silver, Solid	ND	J4	5.4	
Strontium, Solid	**19**		5.4	
Thallium, Solid	**16**		13	
Vanadium, Solid	**19**		5.4	
Zinc, Solid	**430**		11	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09 11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X104 TCLP**	Lab Sample ID:	**C4F2451-02**
Matrix:	TCLP Extraction Fluid-	Date/Time Collected:	14-Jun-04 00 00
Sample Type:			

*** DEFAULT GENERAL METHOD ***

Method:	**100E0**	Analyzed:	13-Jul-04 13:17
Units:	#	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
pH, Initial	**8.80**			
pH, Final	**5.10**			

Mercury (RCRA) by EPA 7000 Series Methods

Method:	**7471**	Analyzed:	13-Aug-04 10:49
Units:	mg/kg	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	**2.9**	#, J3, J4, A-01c	0.10	

TCLP Extraction by EPA 1311

Method:	**1311**	Analyzed:	28-Jun-04 18:01
Units:	mg/L	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Antimony, TCLP Solid	ND		0.006	
Arsenic, TCLP Solid	ND		0.010	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No :	
Trip ID:			
Client Sample ID:	**X104 TCLP**	Lab Sample ID:	**C4F2451-02**
Matrix:	TCLP Extraction Fluid-	Date/Time Collected	14-Jun-04 00:00
Sample Type:			

TCLP Extraction by EPA 1311

Method:	**1311**	Analyzed:	28-Jun-04 18:01
Units:	mg/L	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Barium, TCLP Solid	**1.2**		0.005	
Beryllium, TCLP Solid	ND		0.001	
Cadmium, TCLP Solid	**0.017**		0.005	
Chromium, TCLP Solid	ND		0.005	
Lead, TCLP Solid	**290**		0.50	
Nickel, TCLP Solid	**0.10**		0.005	
Selenium, TCLP Solid	ND		0.010	
Silver, TCLP Solid	ND		0.005	
Thallium, TCLP Solid	ND		0.012	
Vanadium, TCLP Solid	ND		0.005	
Zinc, TCLP Solid	**0.93**		0.010	

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LABORATORY RESULTS

Name: **HAVANA RIGHT OF WAY**

Project Facility Number: 1250205005

Funding Code: PR51

Trip ID:

Received By: Lou Due

Date/Time Received : 15-Jun-04 09:11

Visit No.:

Client Sample ID: **X105**

Matrix: Soil- RCRA

Sample Type:

Lab Sample ID: **C4F2452-01**

Date/Time Collected: 09-Jun-04 00:00

*** DEFAULT GENERAL METHOD ***

Method: **SM 2540G**

Units: %

Analyzed: 29-Jun-04 08:53

Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Solids, %	**90.1**		0.1	

Cyanide, Total and Amenable(Colorimetric,Automated UV) by RCRA 9012

Method: **9012**

Units: mg/kg dry

Analyzed: 16-Jun-04 13:31

Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide,Soil	**1.84**			0.2

Mercury (RCRA) by EPA 7000 Series Methods

Method: **7471**

Units: mg/kg

Analyzed: 12-Aug-04 16:19

Sample Qualifier: **A-01d**

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	**16**	J3, J4	0.10	

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Reported: 13-Aug-04 11:00

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	X105	Lab Sample ID:	C4F2452-01
Matrix:	Soil- RCRA	Date/Time Collected:	09-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	6010	Analyzed:	25-Jun-04 19:50
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium, Solid	**17000**		5500	
Magnesium, Solid	**2500**		5500	
Sodium, Solid	ND		5500	
Potassium, Solid	ND		22000	
Aluminum, Solid	**4900**		1100	
Antimony, Solid	**140**		67	
Arsenic, Solid	**82**		110	
Barium, Solid	**1300**		55	
Boron, Solid	**130**		550	
Beryllium, Solid	ND		11	
Cadmium, Solid	ND		55	
Chromium, Solid	**280**		55	
Copper, Solid	**260**		55	
Cobalt, Solid	ND		55	
Iron, Solid	**92000**		1100	
Lead, Solid	**45000**		55	

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Reported: 13-Aug-04 11:00

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	X105	Lab Sample ID:	C4F2452-01
Matrix:	Soil- RCRA	Date/Time Collected:	09-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	6010	Analyzed:	25-Jun-04 19:50
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Manganese. Solid	**950**		55	
Nickel, Solid	**390**		55	
Selenium, Solid	ND		110	
Silver, Solid	ND		55	
Strontium, Solid	**46**		55	
Thallium, Solid	**200**	A-01a	130	
Vanadium, Solid	ND		55	
Zinc, Solid	**790**		110	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	X105 TCLP	Lab Sample ID:	C4F2452-02
Matrix:	TCLP Extraction Fluid-	Date/Time Collected:	09-Jun-04 00:00
Sample Type			

*** DEFAULT GENERAL METHOD ***

Method: 100E0 — Analyzed: 13-Jul-04 13:18

Units: - — Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
pH, Initial	8.60			
pH, Final	5.30			

Mercury (RCRA) by EPA 7000 Series Methods

Method: 7471 — Analyzed: 13-Aug-04 10:49

Units: mg/kg — Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	16	#, J3, J4, A-01c	0.10	

TCLP Extraction by EPA 1311

Method: 1311 — Analyzed: 28-Jun-04 18:14

Units: mg/L — Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Antimony, TCLP Sold	0.037	J4	0.006	
Arsenic, TCLP Sol d	ND		0.010	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X105 TCLP**	Lab Sample ID:	**C4F2452-02**
Matrix:	TCLP Extraction Fluid-	Date/Time Collected:	09-Jun-04 00:00
Sample Type:			

TCLP Extraction by EPA 1311

Method:	**1311**	Analyzed:	28-Jun-04 18:14
Units:	mg/L	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Barium, TCLP Solid	**1.8**		0.005	
Beryllium, TCLP Solid	ND		0.001	
Cadmium, TCLP Solid	**0.032**		0.005	
Chromium, TCLP Solid	ND		0.005	
Lead, TCLP Solid	**360**		0.50	
Nickel, TCLP Solid	**0.40**		0.005	
Selenium, TCLP Solid	ND		0.010	
Silver, TCLP Solid	ND		0.005	
Thallium, TCLP Solid	ND		0.012	
Vanadium, TCLP Solid	ND		0.005	
Zinc, TCLP Solid	**3.6**		0.010	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X106**	Lab Sample ID:	**C4F2453-01**
Matrix:	Soil- RCRA	Date/Time Collected:	09-Jun-04 00:00
Sample Type:			

*** DEFAULT GENERAL METHOD ***

Method:	**SM 2540G**	Analyzed:	29-Jun-04 08:53
Units:	%	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Solids, %	**91.5**		0.1	

Cyanide, Total and Amenable(Colorimetric,Automated UV) by RCRA 9012

Method:	**9012**	Analyzed:	16-Jun-04 13:31
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide,Soil	**1.55**			0.2

Mercury (RCRA) by EPA 7000 Series Methods

Method:	**7471**	Analyzed:	12-Aug-04 16:19
Units:	mg/kg	Sample Qualifier:	**A-01d**

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	**18**	J3, J4	0.10	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X106**	Lab Sample ID:	**C4F2453-01**
Matrix:	Soil- RCRA	Date/Time Collected:	09-Jun-04 00:00
Sample Type			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	**6010**	Analyzed:	25-Jun-04 19:59
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium, Solid	**15000**		5500	
Magnesium, Solid	**2700**		5500	
Sodium, Solid	ND		5500	
Potassium, Solid	ND		22000	
Aluminum, Solid	**5700**		1100	
Antimony, Solid	**100**		66	
Arsenic, Solid	ND		110	
Barium, Solid	**1300**		55	
Boron, Solid	**90**		550	
Beryllium, Solid	ND		11	
Cadmium, Solid	ND		55	
Chromium, Solid	**270**		55	
Copper, Solid	**260**		55	
Cobalt, Solic	ND		55	
Iron, Solid	**95000**		1100	
Lead, Solid	**42000**		55	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X106**	Lab Sample ID:	**C4F2453-01**
Matrix:	Soil- RCRA	Date/Time Collected:	09-Jun-04 00:00
Sample Type			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	**6010**	Analyzed:	25-Jun-04 19:59
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Manganese, Solid	**1100**		55	
Nickel, Solid	**360**		55	
Selenium, Solid	ND		110	
Silver, Solid	ND		55	
Strontium, Solid	**44**		55	
Thallium, Solid	ND		130	
Vanadium, Solid	ND		55	
Zinc, Solid	**900**		110	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X106 TCLP**	Lab Sample ID:	**C4F2453-02**
Matrix:	TCLP Extraction Fluid-	Date/Time Collected:	09-Jun-04 00:00
Sample Type			

*** DEFAULT GENERAL METHOD ***

Method: **100E0** Analyzed: 13-Jul-04 13:18

Units: # Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
pH, Initial	**8.60**			
pH, Final	**5.30**			

Mercury (RCRA) by EPA 7000 Series Methods

Method: **7471** Analyzed: 13-Aug-04 10:49

Units: mg/kg Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	**18**	#, J3, J4, A-01c	0.10	

TCLP Extraction by EPA 1311

Method: **1311** Analyzed: 28-Jun-04 18:20

Units: mg/L Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Antimony, TCLP Sold	**0.021**	J4	0.006	
Arsenic, TCLP Sold	ND		0.010	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code	PR51	Visit No..	
Trip ID:			
Client Sample ID:	**X106 TCLP**	Lab Sample ID:	**C4F2453-02**
Matrix:	TCLP Extraction Fluid-	Date/Time Collected:	09-Jun-04 00:00
Sample Type:			

TCLP Extraction by EPA 1311

Method:	**1311**	Analyzed:	28-Jun-04 18:20
Units:	mg/L	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Barium, TCLP Solid	**1.9**		0.005	
Beryllium, TCLP Solid	ND		0.001	
Cadmium, TCLP Solid	**0.032**		0.005	
Chromium, TCLP Solid	ND		0.005	
Lead, TCLP Solid	**300**		0.50	
Nickel, TCLP Solid	**0.36**		0.005	
Selenium, TCLP Solid	ND		0.010	
Silver, TCLP Solid	ND		0.005	
Thallium, TCLP Solid	ND		0.012	
Vanadium, TCLP Solid	ND		0.005	
Zinc, TCLP Solid	**4.1**		0.010	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	X107	Lab Sample ID:	C4F2454-01
Matrix:	Soil- RCRA	Date Time Collected:	09-Jun-04 00:00
Sample Type			

*** DEFAULT GENERAL METHOD ***

Method:	SM 2540G	Analyzed:	29-Jun-04 08:53
Units:	%	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Solids, %	90.5		0.1	

Cyanide, Total and Amenable(Colorimetric,Automated UV) by RCRA 9012

Method:	9012	Analyzed:	16-Jun-04 13:31
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide,Soil	0.99			0 2

Mercury (RCRA) by EPA 7000 Series Methods

Method:	7471	Analyzed:	12-Aug-04 16:19
Units:	mg/kg	Sample Qualifier:	A-01d

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	1.3	J3, J4	0.10	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	X107	Lab Sample ID:	C4F2454-01
Matrix:	Soil- RCRA	Date/Time Collected:	09-Jun-04 00:00
Sample Type			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	6010	Analyzed:	25-Jun-04 14:53
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium, Solid	11000		55	
Magnesium, Solid	990		55	
Sodium, Solid	290		55	
Potassium, Solid	370	A-01b	220	
Aluminum, Solid	3800		11	
Antimony, Solid	3.9		0.66	
Arsenic, Solid	14		1.1	
Barium, Solid	450		0.55	
Boron, Solid	1300		5.5	
Beryllium, Solid	0.52		0.11	
Cadmium, Solid	6.7		0.55	
Chromium, Solid	84		0.55	
Copper, Solid	170		0.55	
Cobalt, Solid	14		0.55	
Iron, Solid	110000	L	11	
Lead, Solid	290		0.55	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X107**	Lab Sample ID:	**C4F2454-01**
Matrix:	Soil- RCRA	Date/Time Collected:	09-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	**6010**	Analyzed:	25-Jun-04 14:53
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Manganese, Solid	**3500**		0.55	
Nickel, Solid	**84**		0.55	
Selenium, Solid	ND		1.1	
Silver, Solid	ND		0.55	
Strontium, Solid	**37**		0.55	
Thallium, Solid	ND		1.3	
Vanadium, Solid	**16**		0.55	
Zinc, Solid	**180**		1.1	

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LABORATORY RESULTS

Name: **HAVANA RIGHT OF WAY**

Project/Facility Number: 1250205005

Funding Code: PR51

Trip ID:

Received By: Lou Due

Date/Time Received : 15-Jun-04 09:11

Visit No.:

Client Sample ID: **X108**

Matrix: Soil- RCRA

Sample Type:

Lab Sample ID: **C4F2455-01**

Date Time Collected: 10-Jun-04 00:00

*** DEFAULT GENERAL METHOD ***

Method: **SM 2540G**

Units: %

Analyzed: 29-Jun-04 08:53

Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Solids, %	**90.1**		0.1	

Cyanide, Total and Amenable(Colorimetric,Automated UV) by RCRA 9012

Method: **9012**

Units: mg/kg dry

Analyzed: 16-Jun-04 13:31

Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide,Soil	**0.16**			0 2

Mercury (RCRA) by EPA 7000 Series Methods

Method: **7471**

Units: mg/kg

Analyzed: 12-Aug-04 16:19

Sample Qualifier: **A-01d**

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	**0.41**	J3, J4	0.10	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No..	
Trip ID:			
Client Sample ID:	X108	Lab Sample ID:	C4F2455-01
Matrix:	Soil- RCRA	Date/Time Collected:	10-Jun-04 00:00
Sample Type			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	6010	Analyzed:	25-Jun-04 14:59
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium, Solid	**7100**		55	
Magnesium, Solid	**1500**		55	
Sodium, Sol d	ND		55	
Potassium, Solid	**460**	A-01b	220	
Aluminum, Solid	**6400**		11	
Antimony, Solid	**4.1**		0.67	
Arsenic, Solid	**400**		1.1	
Barium, Solid	**56**		0.55	
Boron, Solid	**35**		5.5	
Beryllium, Solid	**1.3**		0.11	
Cadmium, Solid	**1.4**		0.55	
Chromium, Solid	**11**		0.55	
Copper, Solid	**37**		0.55	
Cobalt, Solid	**7.4**		0.55	
Iron, Solid	**36000**		11	
Lead, Solid	**77**		0.55	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	X108	Lab Sample ID:	C4F2455-01
Matrix:	Soil- RCRA	Date Time Collected:	10-Jun-04 00:00
Sample Type			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	6010	Analyzed:	25-Jun-04 14:59
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Manganese, Solid	**360**		0.55	
Nickel, Solid	**22**		0.55	
Selenium, Solid	**1.0**		1.1	
Silver, Solid	**0.44**		0.55	
Strontium, Solid	**19**		0.55	
Thallium, Solid	ND		1.3	
Vanadium, Solid	**19**		0.55	
Zinc, Solid	***150***		1.1	

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LABORATORY RESULTS

Name: **HAVANA RIGHT OF WAY**

Project/Facility Number: 1250205005

Funding Code: PR51

Trip ID:

Received By: Lou Due

Date/Time Received : 15-Jun-04 09:11

Visit No :

Client Sample ID: **X109**

Matrix: Soil- RCRA

Sample Type

Lab Sample ID: **C4F2456-01**

Date/Time Collected: 10-Jun-04 00:00

*** DEFAULT GENERAL METHOD ***

Method: **SM 2540G**

Units: %

Analyzed: 29-Jun-04 08:53

Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Solids, %	**88.1**		0.1	

Cyanide, Total and Amenable(Colorimetric,Automated UV) by RCRA 9012

Method: **9012**

Units: mg/kg dry

Analyzed: 16-Jun-04 13:31

Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide,Soil	**0.16**			0.2

Mercury (RCRA) by EPA 7000 Series Methods

Method: **7471**

Units: mg/kg

Analyzed: 12-Aug-04 16:19

Sample Qualifier: **A-01d**

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	**0.46**	J3, J4	0.10	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No :	
Trip ID:			
Client Sample ID:	**X109**	Lab Sample ID:	**C4F2456-01**
Matrix:	Soil- RCRA	Date/Time Collected:	10-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	**6010**	Analyzed:	25-Jun-04 15:06
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium, Solid	**11000**		57	
Magnesium, Solid	**2500**		57	
Sodium, Solid	**100**		57	
Potassium, Solid	**480**	A-01b	230	
Aluminum, Solid	**4500**		11	
Antimony, Solid	**78**		0.68	
Arsenic, Solid	**540**		1.1	
Barium, Solid	**92**		0.57	
Boron, Solid	**42**		5.7	
Beryllium, Solid	**0.97**		0.11	
Cadmium, Solid	**1.2**		0.57	
Chromium, Solid	**12**		0.57	
Copper, Solid	**83**		0.57	
Cobalt, Solid	**6.5**		0.57	
Iron, Solid	**36000**		11	
Lead, Solid	**1000**		0.57	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No	
Trip ID:			
Client Sample ID:	**X109**	Lab Sample ID:	**C4F2456-01**
Matrix:	Soil- RCRA	Date/Time Collected:	10-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	**6010**	Analyzed:	25-Jun-04 15:06
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Manganese, Solid	**400**		0.57	
Nickel, Solid	**18**		0.57	
Selenium, Solid	ND		1.1	
Silver, Solid	ND		0.57	
Strontium, Solid	**23**		0.57	
Thallium, Solid	ND		1.4	
Vanadium, Solid	**14**		0.57	
Zinc, Solid	**130**		1.1	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X109 TCLP**	Lab Sample ID:	**C4F2456-02**
Matrix:	TCLP Extraction Fluid-	Date/Time Collected:	10-Jun-04 00:00
Sample Type:			

*** DEFAULT GENERAL METHOD ***

Method:	**100E0**	Analyzed:	13-Jul-04 13:19
Units:	#	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
pH, Initial	**8.70**			
pH, Final	**5.10**			

Mercury (RCRA) by EPA 7000 Series Methods

Method:	**7471**	Analyzed:	13-Aug-04 10:49
Units:	mg/kg	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	**0.46**	#, J3, J4, A-01c	0.10	

TCLP Extraction by EPA 1311

Method:	**1311**	Analyzed:	28-Jun-04 18:27
Units:	mg/L	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Antimony, TCLP Solid	ND		0.006	
Arsenic, TCLP Solid	**0.16**		0.010	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X109 TCLP**	Lab Sample ID:	**C4F2456-02**
Matrix:	TCLP Extraction Fluid-	Date/Time Collected:	10-Jun-04 00:00
Sample Type:			

TCLP Extraction by EPA 1311

Method:	**1311**	Analyzed:	28-Jun-04 18:27
Units:	mg/L	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Barium, TCLP Solid	**0.24**		0.005	
Beryllium, TCLP Solid	ND		0.001	
Cadmium, TCLP Solid	**0.001**		0.005	
Chromium, TCLP Solid	ND		0.005	
Lead, TCLP Solid	**0.12**		0.005	
Nickel, TCLP Solid	**0.008**	A-01	0.005	
Selenium, TCLP Solid	ND		0.010	
Silver, TCLP Solid	ND		0.005	
Thallium, TCLP Solid	ND		0.012	
Vanadium, TCLP Solid	ND		0.005	
Zinc, TCLP Solid	**0.11**		0.010	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID	**X110**	Lab Sample ID:	**C4F2457-01**
Matrix:	Soil- RCRA	Date/Time Collected:	10-Jun-04 00:00
Sample Type			

*** DEFAULT GENERAL METHOD ***

Method:	**SM 2540G**	Analyzed:	29-Jun-04 08:53
Units:	%	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Solids, %	**95.3**		0.1	

Cyanide, Total and Amenable(Colorimetric,Automated UV) by RCRA 9012

Method:	**9012**	Analyzed:	16-Jun-04 13:31
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide,Soil	ND			0.2

Mercury (RCRA) by EPA 7000 Series Methods

Method:	**7471**	Analyzed:	12-Aug-04 16:19
Units:	mg/kg	Sample Qualifier:	**A-01d**

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	ND	J3, J4	0.10	

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LABORATORY RESULTS

Name: **HAVANA RIGHT OF WAY**

Received By: Lou Due

Project/Facility Number: 1250205005

Date/Time Received : 15-Jun-04 09:11

Funding Code PR51

Visit No.:

Trip ID:

Client Sample ID: **X110**

Lab Sample ID: **C4F2457-01**

Matrix: Soil- RCRA

Date/Time Collected: 10-Jun-04 00:00

Sample Type:

RCRA Metals by EPA 6000/7000 Series Methods

Method: **6010**

Analyzed: 25-Jun-04 15:12

Units: mg/kg dry

Sample Qualifier:

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium, Solid	**4200**		52	
Magnesium, Solid	**2000**		52	
Sodium, Solid	ND		52	
Potassium, Solid	**210**	A-01b	210	
Aluminum, Solid	**2000**		10	
Antimony, Solid	ND		0.63	
Arsenic, Solid	**2.4**		1.0	
Barium, Solid	**11**		0.52	
Boron, Solid	**1.3**		5.2	
Beryllium, Solid	**0.12**		0.10	
Cadmium, Solid	ND		0.52	
Chromium, Solid	**3.0**		0.52	
Copper, Solid	**4.4**		0.52	
Cobalt, Solid	**3.0**		0.52	
Iron, Solid	**4000**		10	
Lead, Solid	**3.7**		0.52	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X110**	Lab Sample ID:	**C4F2457-01**
Matrix:	Soil- RCRA	Date/Time Collected:	10-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	**6010**	Analyzed:	25-Jun-04 15:12
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Manganese, Solid	**110**		0.52	
Nickel, Solid	**5.7**		0.52	
Selenium, Solid	ND		1.0	
Silver, Solid	ND		0.52	
Strontium, Solid	**4.6**		0.52	
Thallium, Solid	ND		1.3	
Vanadium, Solid	**6.7**		0.52	
Zinc, Solid	**14**		1.0	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No	
Trip ID:			
Client Sample ID:	X111	Lab Sample ID:	C4F2458-01
Matrix:	Soil- RCRA	Date/Time Collected:	11-Jun-04 00:00
Sample Type			

*** DEFAULT GENERAL METHOD ***

Method:	SM 2540G	Analyzed:	29-Jun-04 08:53
Units:	%	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Solids, %	86.7		0.1	

Cyanide, Total and Amenable(Colorimetric,Automated UV) by RCRA 9012

Method:	9012	Analyzed:	16-Jun-04 13:31
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Cyanide,Soil	0.18			0.2

Mercury (RCRA) by EPA 7000 Series Methods

Method:	7471	Analyzed:	12-Aug-04 16:19
Units:	mg/kg	Sample Qualifier:	A-01d

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	0.59	J3, J4	0.10	

Reported: 13-Aug-04 11:00

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	X111	Lab Sample ID:	C4F2458-01
Matrix:	Soil- RCRA	Date Time Collected:	11-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	6010	Analyzed:	25-Jun-04 15:19
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Calcium, Solid	31000		58	
Magnesium, Solid	1400		58	
Sodium, Solid	37		58	
Potassium, Solid	1100	A-01b	230	
Aluminum, Solid	11000		12	
Antimony, Solid	11		0.69	
Arsenic, Solid	1100		1.2	
Barium, Solid	170		0.58	
Boron, Solid	120		5.8	
Beryllium, Solid	2.6		0.12	
Cadmium, Solid	2.7		0.58	
Chromium, Solid	18		0.58	
Copper, Solid	78		0.58	
Cobalt, Solid	7.3		0.58	
Iron, Solid	48000		12	
Lead, Solid	130		0.58	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X111**	Lab Sample ID:	**C4F2458-01**
Matrix:	Soil- RCRA	Date/Time Collected:	11-Jun-04 00:00
Sample Type:			

RCRA Metals by EPA 6000/7000 Series Methods

Method:	**6010**	Analyzed:	25-Jun-04 15:19
Units:	mg/kg dry	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Manganese, Solid	**650**		0.58	
Nickel, Solid	**21**		0.58	
Selenium, Solid	**1.3**		1.2	
Silver, Solid	ND		0.58	
Strontium, Solid	**58**		0.58	
Thallium, Solid	ND		1.4	
Vanadium, Solid	**25**		0.58	
Zinc, Solid	**250**		1.2	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X111 TCLP**	Lab Sample ID:	**C4F2458-02**
Matrix:	TCLP Extraction Fluid-	Date/Time Collected:	10-Jun-04 00:00
Sample Type			

*** DEFAULT GENERAL METHOD ***

Method:	**100E0**	Analyzed:	13-Jul-04 13:20
Units:	#	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
pH, Initial	**8.70**			
pH, Final	**4.90**			

Mercury (RCRA) by EPA 7000 Series Methods

Method:	**7471**	Analyzed:	12-Aug-04 16:19
Units:	mg/kg	Sample Qualifier:	**A-01d**

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Mercury, Total SW846	ND	J3, J4	0.10	

TCLP Extraction by EPA 1311

Method:	**1311**	Analyzed:	28-Jun-04 18:34
Units:	mg/L	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Antimony, TCLP Solid	ND		0.006	
Arsenic, TCLP Solid	**0.33**		0.010	

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LABORATORY RESULTS

Name:	**HAVANA RIGHT OF WAY**	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			
Client Sample ID:	**X111 TCLP**	Lab Sample ID:	**C4F2458-02**
Matrix:	TCLP Extraction Fluid-	Date/Time Collected:	10-Jun-04 00:00
Sample Type:			

TCLP Extraction by EPA 1311

Method:	**1311**	Analyzed:	28-Jun-04 18:34
Units:	mg/L	Sample Qualifier:	

Analyte	Result	Qualifier	Reporting Limit	Regulatory Level
Barium, TCLP Solid	**0.26**		0.005	
Beryllium, TCLP Solid	ND		0.001	
Cadmium, TCLP Solid	**0.004**		0.005	
Chromium, TCLP Solid	ND		0.005	
Lead, TCLP Solid	**0.040**		0.005	
Nickel, TCLP Solid	**0.008**	A-01	0.005	
Selenium, TCLP Solid	ND		0.010	
Silver, TCLP Solid	ND		0.005	
Thallium, TCLP Solid	ND		0.012	
Vanadium, TCLP Solid	ND		0.005	
Zinc, TCLP Solid	**0.47**		0.010	

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LABORATORY RESULTS

Name:	HAVANA RIGHT OF WAY	Received By:	Lou Due
Project/Facility Number:	1250205005	Date/Time Received :	15-Jun-04 09:11
Funding Code:	PR51	Visit No.:	
Trip ID:			

Notes and Definitions

L	Actual value not known, but known to be greater that value shown. To be used when the concentration of the analyte is above the acceptable level for quantitation. Value shown is the highest acceptable level for quantitation.
J4	The sample matrix interfered with the ability to make any accurate determination (i.e. oily samples, high mineral content in SOCs, high known interferent, etc.)
J3	The reported value failed to meet the established quality control criteria for either precision or accuracy
A-01d	Sample run by method usepa 6020
A-01c	Sample ran by USEPA 6020
A-01b	CCV for ICP analysis failed high.
A-01a	Accurate determination could not be made due to matrix interferences.
#	Results are not compliant with NELAC standards (to be used with case narrative)
*	Non-NELAP accredited analyte
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
Dry	Sample results reported on a dry weight basis

Reported: 13-Aug-04 11:00

APPENDIX D
SITE PHOTOGRAPHS

SITE NAME: Havana Right of Way	
CERCLIS ID: Not Assigned	**COUNTY:** Mason

DATE: June 8, 2004
TIME: 1135
PHOTO BY: M. Weber
PHOTO NUMBER: 1
DIRECTION: East
COMMENTS: Photograph of soil sample X101. X01 was collected from a Geoprobe® location on the north side of the property. Part of the former Prairieland Steel factory in the background.

DATE: June 8, 2004
TIME: 1240
PHOTO BY: M. Weber
PHOTO NUMBER: 2
DIRECTION: East
COMMENTS: Photograph of soil sample X102. X102 was collected from Geoprobe® location along the west side of the site. Profile Screen can be seen in the background.

SITE NAME: Havana Right of Way
CERCLIS ID: Not Assigned **COUNTY:** Mason

DATE: June 8, 2004
TIME: 1510
PHOTO BY: M. Weber
PHOTO NUMBER: 3
DIRECTION: South
COMMENTS: Photograph of soil sample X103. X103 was collected from a Geoprobe® location on the southwest corner of the investigation area.

DATE: June 9, 2004
TIME: 1215
PHOTO BY: M. Weber
PHOTO NUMBER: 4
DIRECTION: North
COMMENTS: Photograph of soil sample X104. X104 was a shallow soil sample collected in the north central portion of the site.

SITE NAME: Havana Right of Way
CERCLIS ID: Not Assigned **COUNTY:** Mason

DATE: June 9, 2004
TIME: 1305
PHOTO BY: M. Weber
PHOTO NUMBER: 5
DIRECTION: South
COMMENTS: Photograph of duplicate soil samples X105 & X106. The samples were collected from shallow soil in an area identified with high lead contamination near the center of the site.

DATE: June 9, 2004
TIME: 1450
PHOTO BY: M. Weber
PHOTO NUMBER: 6
DIRECTION: North
COMMENTS: Photograph of soil sample X107. X107 was collected from a Geoprobe® boring location near. Some of the former Prairieland Steel facility can be seen in the background.

SITE NAME: Havana Right of Way
CERCLIS ID: Not Assigned **COUNTY:** Mason

DATE: June 10, 2004
TIME: 1000
PHOTO BY: M. Weber
PHOTO NUMBER: 7
DIRECTION: West
COMMENTS: Photograph of soil sample X108. X108 was collected from a Geoprobe® boring location along the western side on the former rail bed.

DATE: June 10, 2004
TIME: 1030
PHOTO BY: M. Weber
PHOTO NUMBER: 8
DIRECTION: West
COMMENTS: Photograph of soil sample X109. X109 was collected from a Geoprobe® location near the southeast side of the site.

SITE NAME: Havana Right of Way
CERCLIS ID: Not Assigned **COUNTY:** Mason

DATE: June 10, 2004
TIME: 1050
PHOTO BY: M. Weber
PHOTO NUMBER: 9
DIRECTION: West
COMMENTS: Photograph of soil sample X110. X110 was collected from a Geoprobe® location on the southern portion of the site.

DATE: June 10, 2004
TIME: 1140
PHOTO BY: M. Weber
PHOTO NUMBER: 10
DIRECTION: South
COMMENTS: Photograph of soil sample X111. X111 was a collected from a Geoprobe® location near the former Prairieland Steel offices.